

Amendments to the Specification:

This following amended paragraph(s) replaces all prior versions of the identified paragraph in the present application:

Paragraphs of Specification Amended:

[0051] When the invention is practiced as a procedure performed by a programmed general purpose digital computer including a central processing unit and a memory unit containing computer software for operating the computer, it may also comprise an article of manufacturing, embodied as a computer program product in a form illustrated in FIG. 5. A program comprising a plurality of program steps, or means for performing program steps, written in a computer language, is compiled into object form and stored on a program storage device such as a disk 502. The program steps implement the pseudocode of Tables I VII and may be included in the computer program of a data manager in a DBMS having a database engine and database, wherein the database engine is responsible for receiving requests from client applications, processing the requests, retrieving information from the database, and returning the retrieved information to the client applications that issued the requests. Those skilled in the art will appreciate that the storage device 502 is merely illustrative of storage media in which a computer program may be fixed, in whole or in part, for greater or shorter periods of time. The invention can take the form of a computer program product accessible from a computer-usable or computer-readable medium providing program code for use by or in connection with a computer or any instruction execution system. For the purposes of this description, a computer-usable or computer readable medium can be any medium that can contain, store, or maintain programs and data for use by

or in connection with the instruction execution system. The computer readable medium can comprise any one of many physical media such as, for example, electronic, magnetic, optical, electromagnetic, infrared, or semiconductor media. More specific examples of a suitable computer-readable medium would include, but are not limited to, a portable magnetic computer diskette such as a floppy diskette or hard drive, a random access memory (RAM), a read-only memory (ROM), an erasable programmable read-only memory, a portable compact disc. Such media include, without reservation, disk, tape, ROM, RAM, system nodes, and network nodes.